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NOVA SCOTIA COAL RESOURCES EVALUATION PROJECT: PROGRESS AND STATUS OF COAL CHEMISTRY FILE JANUARY 1, 1983 TO DECEMBER 31, 1983

G. W. Bonnell
Cape Breton Coal Research Laboratory

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by

G. W. Bonnell

SUMMARY

Under the Canada-Nova Scotia Development Agreement signed February 17, 1975, Canada - through the Department of Regional Economic Expansion (DREE) - contributed to mineral exploration and evaluation in Nova Scotia. The second Canada-Nova Scotia Mineral Development Agreement signed December 1, 1981 calls for a continuation of that effort.

Both agreements provide in part for a Coal Resource Inventory and Evaluation in Nova Scotia referred to in this report as the Program. The Program entails assessment of coal seams by drilling and drill core analyses by the laboratories of CANMET, Department of Energy, Mines and Resources.

This report presents the analyses of coal samples analyzed from onshore drill sites under the inventory program by the CANMET laboratory at Sydney, Nova Scotia, for the period January 1, 1983 to December 31, 1983.

PROJET D'ÉVALUATION DES RESSOURCES DE CHARBON DE LA NOUVELLE-ÉCOSSE: PROGRÈS ET ÉTAT DU DOSSIER SUR LE CHARBON DU 1er JANVIER 1983 AU 31 DÉCEMBRE 1983

par

G.W. Bonnell

RÉSUMÉ

En vertu de l'entente Canada-Nouvelle-Écosse sur l'exploitation des minéraux ratifiée le 17 février 1975, le Canada, par l'intermédiaire du ministère de l'Expansion économique régionale (MEER), a contribué à l'exploration et à l'évaluation des ressources minérales en Nouvelle-Écosse. La deuxième entente entre le Canada et la Nouvelle-Écosse concernant l'exploitation des minéraux fut ratifiée le 1er décembre 1981 et soulignait l'importance de la poursuite de cette collaboration.

Les deux ententes portent sur l'inventaire et l'évaluation des ressources de charbon de la Nouvelle-Écosse, projets mentionnés dans ce rapport sous le titre de Programme. Le Programme comprend l'évaluation des couches de houille au moyen de forages et d'analyses de couronnes de sondage par le personnel des Laboratoires du CANMET, ministère de l'Énergie, des Mines et des Ressources.

Ce rapport porte sur les analyses des échantillons de charbon faites au cours du programme d'inventaire à partir de sites de forage situés sur terre par le personnel du laboratoire du CANMET à Sydney, Nouvelle-Écosse au cours de la période du 1er janvier 1983 au 31 décembre 1983.

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INTRODUCTION

Under the Canada-Nova Scotia Development Agreement signed February 17, 1975, Canada - through the Department of Regional Economic Expansion (DREE) - contributed to mineral exploration and evaluation in Nova Scotia. The second Canada-Nova Scotia Mineral Development Agreement signed December 1, 1981 calls for a continuation of that effort.

Both Agreements provide in part for a Coal Resource Inventory and Evaluation in Nova Scotia Referred to in this report as the Program. The Program entails assessment of coal seams by drilling and drill core analyses by the laboratories of CANMET, Department of Energy, Mines and Resources.

Reports dealing with the coal quality evaluation under this co-operative Program have been prepared as follows.

1. Report ERP (CF) 75-2 (PRJ) - Summary and Analyses of Seam Composites (a summary of the progress and status to March 31, 1975 of the coal analytical determinations).
2. Report ERP (CF) 75-3 (PRJ) - Sorted Indexes and Coal Analyses (complete analyses of all seam intervals and composites with four index systems for retrieval of coal chemistry data).
3. Report ERP (CF) 76-36 (SP) (TR) - Analyses of all samples analyzed under this project between April 1, 1975 and March 31, 1976.
4. Report ERP/ERL (CF) 77-116 (SP) (TR) - Analyses of all samples from onshore drill sites analyzed under this project between April 1, 1976 and March 31, 1977.
5. Report ERP/ERL 78-32 (TR) - Evaluation of coal quality - Part I: Analyses 1974-1977. Analyses of all onshore drill site coal samples analyzed under this project to March 31, 1977.
6. Report ERP/ERL 80-37 (TR) - Analyses of all samples from onshore drill sites analyzed under this project between April 1, 1977 and December 31, 1977.
7. Report ERP/ERL 80-57 (TR) - Analyses of all samples from onshore drill sites analyzed under this project between January 1, 1978 and December 31, 1978.
8. Report ERP/ERL 80-60 (TR) - Analyses of all samples from onshore drill sites analyzed under this project between January 1, 1979 and December 31, 1979.

9. Report ERP/ERL 81-28(IR) - Analyses of all samples from drill sites analyzed under this project between January 1, 1980 and December 31, 1980.
10. Report ERP/CRL 82-01(CF) - Analyses from onshore drill sites analyzed under this project between January 1, 1981 and December 31, 1981.
11. Report ERP/CRL 82-02 (CF) - Analyses from onshore drill sites analyzed under this project between January 1, 1982 and December 31, 1982.

This report presents the analyses of coal samples anlyzed from onshore drill sites under the inventory program by the CANMET laboratory at Sydney, Nova Scotia, for the period January 1, 1983 to December 31, 1983. Analyses were performed by G.R. Corbett, D.A. Young, D.J. O'Brien, L.S. O'Leary and G.W. Bonnell.

For the purpose of reporting seam identification and for data storage and manipulation an Acquisition Number has been assigned to each seam intersected in a test hole. The Acquisition Numbers have been grouped arbitrarily in series according to coal occurrence areas or districts. These series, according to areas that have been examined under the program from 1975-1983, are shown in Table 1. Other areas included in the program in the future, will be likewise serialized as the coal analyses are recorded and reported.

Table 2 presents the Acquisition Numbers assigned to each seam intersection together with available site information for each borehole included in the present Report of Analyses. The coordinate system used for the Albion and Glace Bay District samples is the 3° Modified Transverse Mercator (MTM) expressed in meters; that used for the Springhill District samples is the 6° Revised Universal Transverse Mercator (6° Revised UTM) expressed in meters

Table 3 to 5 present the analyses by district (or area) of the seam interval samples (seam sections) in ascending order of Acquisition Number (Acquisition Number located at the right hand side of the page).

Table 6 presents the analyses of split tube samples taken from the Springhill Coal Refuse Dump.

Table 7 presents the analyses of split tube composite samples which pertain to Screen and Float-Sink Analyses. (These split tube composite samples were composited from samples taken at the Springhill Coal Refuse Dump).

Table 8 shows the total number of samples and the analyses conducted under this program during 1983.

SUMMARY OF PROGRESS AND STATUS OF COAL ANALYSES, 1983

From January 1, 1983 to December 31, 1983 the coal samples originated from drill cores from the following areas and sites:

Pictou County	
Albion District	1 site (184 samples)
Cape Breton County	
Glace Bay District	5 sites (23 samples)
Cumberland County	
Springhill District	16 sites (151 samples)

In addition, 102 split tube samples were taken from ten holes at the Springhill Coal Refuse Dump in Springhill. Ten conposite samples, representing each of the ten holes, were prepared from these samples for Screen and Float-Sink Analyses. (90 samples)

At the Sydney laboratory the coal core was crushed and pulverized, and subsamples and composite samples were prepared to allow the various planned analyses by the Cape Breton Coal Research Laboratory.

A total of 550 samples were analyzed for a total of 3,730 data items.

Table 1 - Acquisition numbers for the various coal districts: 1975 - 1983 (for analytical records)

Albion District	100-199
Westville District	200-299
Debert District	300-399
Kemptown District	400-499
Maccan District	500-599
Salt Springs District	600-699
Styles Brook District	700-799
Chimney Corner District	800-899
Port Hood District	900-999
Springhill District	1000-1099
Thorburn District	1100-1199
Glace Bay District	1200-1299
New Waterford District	1300-1399
Port Morien District	1400-1499
Joggins-River Hebert District	1500-1599
St. Rose District	1600-1699
Sydney Mines District	1700-1799
Springhill District (cont'd from 1099)	1800-1899

Table 2 - Acquisition number and site information, 1983

Acquisition No.	Hole No.	3°MTM Projection (m) Coordinates N E	Seam	Depth interval (m)	Elevation (m)
		Pictou County - Albion District (100 series)			
175	DDNS-P-54	5,049,307.5-214,004.5	Foord	191.8 - 201.3	33.8
176	DDNS-P-54	5,049,307.5-214,004.5	Cage	242.94 - 250.0	33.8
177	DDNS-P-54	5,049,307.5-214,004.5	?	257.5 - 258.83	33.8
178	DDNS-P-54	5,049,307.5-214,004.5	No.3	263.05 - 268.33	33.8
179	DDNS-P-54	5,049,307.5-214,004.5	No. 3 (Repeat)	273.40 - 279.0	33.8
180	DDNS-P-54	5,049,307.5-214,004.5	Purvis	312.40 - 314.50	33.8
181	DDNS-P-54	5,049,307.5-214,004.5	McGregor	329.30 - 349.50	33.8
182	DDNS-P-54	5,049,307.5-214,004.5	New	364.0 - 367.88	33.8
183	DDNS-P-54	5,049,307.5-214,004.5	New (Repeat)	376.88 - 383.50	33.8
184	DDNS-P-54	5,049,307.5-214,004.5	?	391.0 - 393.8	33.8
185	DDNS-P-54	5,049,307.5-214,004.5	?	409.0 - 409.55	33.8
186	DDNS-P-54	5,049,307.5-214,004.5	Norah	462.90 - 467.50	33.8
		Cape Breton County - Glace Bay District (1200 series)			
1256	DDNS-GB-54	5,116,420.78-429,881.78	O'Dell	80.34 - 80.82	20.2
1257	DDNS-GB-55	5,116,440.82-429,974.92	McRury	6.28 - 6.46	25.4
1258	DDNS-GB-56	5,116,209.50-427,924.67	McRury	20.16 - 21.23	28.3
1259	DDNS-GB-56	5,116,209.50-427,924.67	O'Dell	101.94 - 102.56	28.3
1260	DDNS-GB-57	5,116,277.78-427,955.90	McRury	28.75 - 29.05	27.1
1261	DDNS-GB-58	5,116,376.59-427,232.14	McRury	37.10 - 38.18	3.8
		Cumberland County - Springhill District (1800 series)			
1854	DDNS-SH-71	5,056,658.0-416,740.3	Lower No.3	75.00 - 77.09	116.3
1855	DDNS-SH-73	5,056,976.2-417,129.5	No.6	58.81 - 60.71	117.8
1856	DDNS-SH-73	5,056,976.2-417,129.5	No.7	40.44 - 41.68	117.8
1857	DDNS-SH-75	5,057,145.8-417,003.3	No.7	21.59 - 22.88	119.0

Table 2 - (Cont'd)

Acquisition No.	Hole No.	3°MTM Projection (m) Coordinates N E	Seam	Depth interval (m)	Elevation (m)
1858	DDNS-SH-75	5,057,145.8-417,003.3	No.6	40.86 - 42.35	119.0
1859	DDNS-SH-78	5,052,151.30-414,156.67	Rodney	348.74 - 350.44	148.8
1860	DDNS-SH-79	5,053,153.70-417,754.90	No.3	51.99 - 56.67	123.5
1861	DDNS-SH-79	5,053,153.70-417,754.90	McCarthy	33.25 - 34.19	123.5
1862	DDNS-SH-80	5,054,839.20-416,406.80	No.3	25.05 - 27.54	149.3
1863	DDNS-SH-81	5,054,911.50-416,478.30	No.3	22.90 - 27.22	149.6
1864	DDNS-SH-82	5,054,758.99-416,398.24	No.3	27.19 - 31.04	148.10
1865	DDNS-SH-83	5,053,398.9 -416,576.0	No.3	9.38 - 12.13	172.4
1866	DDNS-SH-85	5,053,409.2 -416,551.1	No.3	11.08 - 14.50	172.0
1867	DDNS-SH-87	5,053,467.2 -416,541.0	No.3	7.42 - 10.29	170.5
1868	DDNS-SH-89	5,055,141.14-416,637.25	No.3	20.53 - 23.32	148.00
1869	DDNS-SH-90	5,054,746.46-416,362.58	No.3	17.19 - 21.30	146.93
1870	DDNS-SH-91	5,054,645.13-416,277.37	No.3	7.54 - 9.91	138.72
1871	DDNS-SH-92	5,055,369.82-416,777.42	No.3	6.30 - 10.67	143.24
1837	DDNS-SH-64	5,052,450.12-414,929.82	Rodney	250.28 - 253.965	155.7
		Split Tube Samples - Springhill Coal Refuse Dump			
	SD-83-1	5,054,836.84-416,331.04		0 - 10.05	148.10
	SD-83-2	5,054,742.28-416,359.72		0 - 6.70	146.87
	SD-83-3	5,054,794.39-416,270.15		0 - 12.73	147.57
	SD-83-4	5,054,807.39-416,458.34		0 - 6.70	150.07
	SD-83-5	5,054,872.14-416,443.15		0 - 7.35	149.07
	SD-83-6	5,054,922.74-416,377.68		0 - 7.37	146.58
	SD-83-7	5,054,943.95-416,462.37		0 - 6.70	148.78
	SD-83-8	5,054,897.13-416,505.75		0 - 6.70	150.25
	SD-83-9	5,055,000.83-416,555.22		0 - 5.36	149.98
	SD-83-10	5,054,762.45-416,434.18		0 - 9.38	150.04

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
Hole No. DDNS-P-54 Foord Seam						Acq. No. 175				
PE-321-83	P-83-1	191.8-192.2	2.59	32.41	25.36	39.64	0.63		1/2	
PE-322-83	P-83-2	192.2-192.6	2.71	19.23	29.92	48.14	0.68	11,054	1	
PE-323-83	P-83-3	192.6-193.1	0.71	59.82	40.22		0.22		0	
PE-324-83	P-83-4	193.1-193.57	2.40	27.12	26.08	44.40	0.56	9,779	1/2	
PE-325-83	P-83-5	193.57-193.90	2.64	15.90	30.57	50.89	0.47		1	
PE-326-83	P-83-6	193.90-194.25	2.62	14.80	30.61	51.97	0.41	11,361	1	
PE-327-83	P-83-7	194.25-194.53	2.66	19.88	29.63	47.83	0.37	10,844	1 1/2	
PE-328-83	P-83-8	194.53-194.67	2.51	42.68	25.19	29.62	0.33		0	
PE-329-83	P-83-9	194.67-195.0	2.61	16.07	29.97	51.35	0.41	11,746	1	
PE-330-83	P-83-10	195.0-195.32	2.70	12.70	31.07	53.53	0.44	12,364	1	
PE-331-83	P-83-11	195.32-195.64	2.83	13.40	30.55	53.22	0.50		1	
PE-332-83	P-83-12	195.64-196.0	2.32	66.53	18.24	12.91	0.16		0	
PE-333-83	P-83-13	196.0-196.25	2.55	28.07	27.63	41.75	0.54	9,464	1/2	
PE-334-83	P-83-14	196.25-196.50	2.53	16.58	31.64	49.25	0.51		1	
PE-335-83	P-83-15	196.5-196.83	2.53	12.53	31.65	53.29	0.52	12,338	1	
PE-336-83	P-83-16	196.83-197.16	2.55	15.48	30.58	51.39	0.46		1 1/2	
PE-337-83	P-83-17	197.16-197.5	2.53	19.46	30.13	47.88	0.49	10,960	1 1/2	
PE-338-83	P-83-18	197.5-197.7	2.59	17.84	31.20	48.37	0.56		1 1/2	
PE-339-83	P-83-19	197.7-198.0	2.72	13.80	30.03	53.45	0.66	12,085	1	
PE-340-83	P-83-20	198.0-198.33	2.84	9.30	30.81	57.05	0.65	12,703	1	
PE-341-83	P-83-21	198.33-198.66	2.44	21.40	28.05	48.11	0.48		1 1/2	
PE-342-83	P-83-22	198.66-199.0	2.40	24.94	27.75	44.91	0.57	9,950	1 1/2	
PE-343-83	P-83-23	199.0-199.1	2.54	27.10	26.98	43.38	0.49		1 1/2	
PE-344-83	P-83-24	199.1-199.46	2.44	26.90	26.04	44.62	0.50	9,818	1 1/2	
PE-345-83	P-83-25	199.46-199.53	2.38	45.14	22.94	29.54	0.39		0	
PE-346-83	P-83-26	199.53-199.88	2.76	19.29	28.01	49.94	0.63	11,073	1 1/2	
PE-347-83	P-83-27	199.88-200.24	2.40	24.04	28.29	45.27	0.66		1 1/2	
PE-348-83	P-83-28	200.24-200.60	2.61	13.30	30.11	53.98	0.86	12,087	1	
PE-349-83	P-83-29	200.60-200.92	2.38	42.57	20.79	34.26	0.43		0	
PE-350-83	P-83-30	200.92-201.0	2.84	11.83	30.26	55.07	2.39	11,830	1 1/2	
PE-351-83	P-83-31	201.0-201.3	2.27	36.23	23.81	37.69	0.92		0	

Table 3 - Cont'd

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
Hole No. DDNS-P-54 Cage Seam							Acq. No. 176			
PE-352-83	P-83-32	242.94-243.22	1.95	26.36	26.56	45.13	1.46	9,863	1	
PE-353-83	P-83-33	243.22-243.51	2.05	15.78	29.58	52.59	3.37		1	
PE-354-83	P-83-34	243.51-243.80	2.20	12.72	30.98	54.10	1.34	12,252	1	
PE-355-83	P-83-35	243.80-244.26	2.05	47.97	22.85	27.13	0.62		0	
PE-356-83	P-83-36	244.26-244.33	2.22	22.85	29.06	45.87	1.19	10,705	1 1/2	
PE-357-83	P-83-37	244.33-244.37	2.09	50.19	20.53	27.19	0.57		0	
PE-358-83	P-83-38	244.37-244.80	2.22	20.29	29.26	48.23	1.10	11,221	1	
PE-359-83	P-83-39	244.80-245.11	2.38	15.30	30.37	51.95	0.93		1 1/2	
PE-360-83	P-83-40	245.11-245.42	2.27	14.25	30.84	52.64	0.93	12,133	1	
PE-361-83	P-83-41	245.42-245.73	2.39	19.38	28.82	49.41	1.21		1 1/2	
PE-362-83	P-83-42	245.73-246.04	2.30	14.98	29.88	52.84	1.12		1/2	
PE-363-83	P-83-43	246.04-246.35	2.41	13.28	30.29	54.02	1.31	11,788	1 1/2	
PE-364-83	P-83-44	246.35-246.66	2.41	14.41	29.16	54.02	5.78		1	
PE-365-83	P-83-45	246.66-246.97	2.29	31.89	26.33	39.49	2.33	8,738	1 1/2	
PE-366-83	P-83-46	246.97-247.28	2.50	21.58	27.47	48.45	1.34		1/2	
PE-367-83	P-83-47	247.28-247.60	2.19	22.58	28.81	46.42	1.34	10,673	1/2	
PE-368-83	P-83-48	247.60-247.96	2.00	34.16	25.97	37.87	3.83	8,769	1 1/2	
PE-369-83	P-83-49	247.96-248.28	2.26	16.79	21.67	29.28	1.68		0	
PE-370-83	P-83-50	248.28-248.60	2.26	29.85	25.73	42.16	1.90	9,427	1 1/2	
PE-371-83	P-83-51	248.60-248.80	2.44	47.93	20.95	28.68	1.31		0	
PE-372-83	P-83-52	248.80-248.96	2.53	53.25	19.34	24.88	1.38		0	
PE-373-83	P-83-53	248.96-249.04	2.37	16.06	29.76	51.81	2.99	11,617	1	
PE-374-83	P-83-54	249.04-249.34	2.29	29.98	25.26	42.47	1.86		1 1/2	
PE-375-83	P-83-55	249.34-249.61	2.30	18.96	29.69	49.05	1.89	11,682	1	
PE-376-83	P-83-56	249.61-249.88	2.51	20.94	27.12	49.43	2.35		1 1/2	
PE-377-83	P-83-57	249.88-250.0	2.39	51.66	19.84	26.11	2.32		0	
Hole No. DDNS-P-54 7 Seam							Acq. No. 177			
PE-378-83	P-83-58	257.5- 258.05	2.28	60.06	18.30	19.36	1.89		0	

Table 3 - Cont'd

Laboratory No.	DDMS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
PE-379-83	P-83-59	258.05-258.40	2.38	39.14	23.16	35.32	1.95	7,916	0	
PE-380-83	P-83-60	258.40-258.83	2.25	56.75	19.13	21.87	3.34		0	
Hole No. DDMS-P-54 No. 3 Seam							Acq. No. 178			
PE-381-83	P-83-61	263.05-263.42	2.06	29.97	25.34	42.63	0.81	9,537	1 1/2	
PE-382-83	P-83-62	263.42-263.80	2.24	56.82	19.72	21.22	0.44		1	
PE-383-83	P-83-63	263.80-264.30	1.96	26.54	26.90	44.60	1.18		1	
PE-384-83	P-83-64	264.30-264.60	2.20	13.11	30.00	54.69	0.94	12,126	1	
PE-385-83	P-83-65	264.60-264.90	2.04	16.54	29.18	52.24	0.78		1	
PE-386-83	P-83-66	264.90-265.20	2.04	20.00	29.04	48.92	0.87	10,948	1 1/2	
PE-387-83	P-83-67	265.20-265.48	1.87	23.47	29.01	45.65	1.25		1	
PE-388-83	P-83-68	265.48-265.79	2.11	8.13	33.64	56.12	2.55	12,984	3 1/2	
PE-389-83	P-83-69	265.79-266.10	2.07	11.72	30.48	55.73	1.07	12,588	1	
PE-390-83	P-83-70	266.10-266.20	2.08	25.50	25.28	47.14	1.33		1 1/2	
PE-391-83	P-83-71	266.20-266.30	1.83	62.62	15.63	19.92	0.76		0	
PE-392-83	P-83-72	266.30-266.45	1.95	36.92	23.95	37.18	1.84	8,299	1/2	
PE-393-83	P-83-73	267.45-267.80	2.03	27.09	26.94	43.94	2.70		1 1/2	
PE-394-83	P-83-74	267.80-268.07	1.99	17.72	29.49	50.80	4.37	11,467	1	
PE-395-83	P-83-75	268.07-268.33	2.15	24.50	27.18	46.17	1.87		1	
Hole No. DDMS-P-54 No.3 Seam (Repeat)							Acq. No. 179			
PE-396-83	P-83-76	273.40-273.67	1.99	45.12	22.71	30.18	1.76		1	
PE-397-83	P-83-77	273.67-273.75	1.90	30.52	26.07	41.51	2.80	9,897	1	
PE-398-83	P-83-78	273.75-274.15	1.77	23.70	29.03	45.50	2.84	10,746	1	
PE-399-83	P-83-79	274.15-274.40	1.98	33.37	25.35	39.30	3.45		1 1/2	
PE-400-83	P-83-80	274.40-274.50	2.21	54.77	18.59	24.43	1.42		0	
PE-401-83	P-83-81	275.45-275.75	2.44	63.63	16.98	16.95	1.26		0	
PE-402-83	P-83-82	275.75-275.90	2.21	47.50	21.40	28.89	1.90		0	
PE-403-83	P-83-83	275.90-275.98	2.58	74.06	13.49	9.87	0.44		0	
PE-404-83	P-83-84	275.98-276.40	2.00	45.76	22.74	29.51	3.69		0	
PE-405-83	P-83-85	276.40-276.80	1.90	26.51	27.62	43.98	3.30	10,373	1	

Table 3 - Cont'd

Laboratory No.	DDMS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
PE-406-83	P-83-86	276.80-277.20	2.03	26.20	26.67	45.11	1.96	10,458	1	
PE-407-83	P-83-87	277.20-277.53	2.26	55.91	19.51	22.32	1.41		0	
PE-408-83	P-83-88	277.53-277.87	2.26	52.67	19.94	25.13	1.51		0	
PE-409-83	P-83-89	277.87-278.20	2.39	61.31	17.48	18.82	1.69		0	
PE-410-83	P-83-90	278.20-278.54	1.89	49.11	20.78	28.22	7.93		0	
PE-411-83	P-83-91	278.54-279.0	1.98	34.69	25.27	38.06	3.18	8,873	1	
Hole No. DDMS-P-54 Purvis Seam							Acq. No. 180			
PE-412-83	P-83-92	312.40-312.70	1.77	40.42	23.98	33.83	2.70	7,902	1 1/2	
PE-413-83	P-83-93	312.70-313.0	1.74	37.37	25.00	35.89	2.85		1 1/2	
PE-414-83	P-83-94	313.0- 313.20	1.84	24.85	28.13	45.17	2.65	10,645	1	
PE-415-83	P-83-95	313.20-313.55	1.06	53.49	31.72	13.73	0.32		0	
PE-416-83	P-83-96	313.55-313.85	1.81	44.03	22.71	31.45	0.57		0	
PE-417-83	P-83-97	313.85-314.15	1.47	47.63	24.24	26.66	3.75		0	
PE-418-83	P-83-98	314.15-314.50	1.69	26.19	27.65	44.47	1.52	10,438	1	
Hole No. DDMS-P-54 McGregor Seam							Acq. No. 181			
PE-419-83	P-83-99	329.30-329.68	1.83	43.84	23.69	30.64	3.82		1/2	
PE-420-83	P-83-100	329.68-330.0	1.68	18.89	29.52	49.92	1.81	11,585	1	
PE-421-83	P-83-101	330.0- 330.35	1.91	19.54	28.33	50.22	1.19	11,413	1	
PE-422-83	P-83-102	330.44-330.60	1.86	59.82	17.40	20.92	1.06		0	
PE-423-83	P-83-103	330.60-330.83	1.73	28.66	26.28	43.33	2.91	9,879	1	
PE-424-83	P-83-104	330.83-331.09	1.91	48.33	21.63	28.13	2.66		0	
PE-425-83	P-83-105	331.09-331.35	1.70	22.48	27.66	48.16	2.12		0	
PE-426-83	P-83-106	331.35-331.72	1.68	13.86	30.95	53.51	2.36	12,438	3	
PE-427-83	P-83-107	331.72-332.09	1.75	22.14	29.03	47.08	3.22	11,032	1	
PE-428-83	P-83-108	332.09-332.47	1.57	34.23	26.12	38.08	3.71		1	
PE-429-83	P-83-109	334.36-334.67	1.72	39.09	25.25	33.94	3.20		1	
PE-430-83	P-83-110	334.67-334.98	1.52	25.18	29.37	43.93	4.35	10,647	1	

Table 3 - Cont'd

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
PE-431-83	P-83-111	334.98-335.29	1.49	27.79	27.80	42.92	3.98		1	
PE-432-83	P-83-112	335.29-335.46	1.44	27.11	27.84	43.61	3.09	10,401	1	
PE-433-83	P-83-113	335.46-335.53	1.61	41.50	23.80	33.09	1.91		1/2	
PE-434-83	P-83-114	335.53-336.0	1.64	27.77	27.27	43.32	3.89	10,225	1	
PE-435-83	P-83-115	336.0- 336.65	1.58	24.13	28.99	45.30	3.29		1	
PE-436-83	P-83-116	336.65-337.0	1.60	25.26	28.41	44.73	3.73	10,475	1	
PE-437-83	P-83-117	340.4- 340.65	1.77	36.50	24.92	36.81	1.41		1	
PE-438-83	P-83-118	340.65-340.9	1.67	22.76	28.66	46.91	1.45	11,022	1	
PE-439-83	P-83-119	340.9- 341.15	1.86	10.93	31.62	55.59	1.19	12,787	3	
PE-440-83	P-83-120	341.15-341.51	1.88	39.98	22.90	35.24	1.23		1	1/2
PE-441-83	P-83-121	341.51-341.88	1.95	36.86	23.67	37.52	1.02	8,366	1	1/2
PE-442-83	P-83-122	341.88-342.25	1.89	41.82	24.37	31.92	1.22		1	1/2
PE-443-83	P-83-123	343.10-343.50	1.72	34.83	24.75	38.70	2.42	8,823	1	1/2
PE-444-83	P-83-124	343.50-343.90	1.74	36.74	24.15	37.37	3.09		1	1/2
PE-456-83	P-83-136	343.90-344.30	1.81	18.72	28.41	51.07	1.40	11,514	1	
PE-445-83	P-83-125	344.80-345.18	1.90	36.75	23.30	38.05	2.09		1	1/2
PE-446-83	P-83-126	345.18-345.56	1.79	34.29	24.49	39.43	1.71		1	1/2
PE-447-83	P-83-127	345.56-345.94	1.66	39.28	23.43	35.63	1.52	8,839	1	1/2
PE-448-83	P-83-128	345.94-346.32	1.87	41.06	23.08	33.99	5.31		1	1/2
PE-449-83	P-83-129	346.32-346.70	1.63	25.37	27.07	45.93	2.47	7,624	1	1/2
PE-450-83	P-83-130	346.70-347.10	1.73	24.26	27.85	46.16	2.14		1	
PE-451-83	P-83-131	347.10-347.50	1.80	40.66	22.77	34.77	2.27	10,677	1	
PE-452-83	P-83-132	348.30-348.60	1.58	30.63	25.21	42.58	2.76		1	1/2
PE-453-83	P-83-133	348.60-348.90	1.68	12.79	31.40	54.12	3.09	9,695	1	1/2
PE-454-83	P-83-134	348.90-349.20	1.63	18.92	29.78	49.67	2.42	11,650	1	
PE-455-83	P-83-135	349.20-349.50	1.62	12.88	31.67	53.83	1.74		2	1/2
Hole No. DDNS-P-54 New Seam							Acq. No. 182			
PE-457-83	P-83-137	364.0- 364.36	1.55	24.33	29.58	44.54	1.53	10,501	1	
PE-458-83	P-83-138	364.36-364.35					5.36			

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
PE-459-83	P-83-139	364.45-364.86	1.67	12.37	30.86	55.10	1.18	12,807	1 1/2	
PE-460-83	P-83-140	364.86-364.90					2.58			
PE-461-83	P-83-141	364.90-365.25	1.76	12.39	32.20	53.65	1.36		2	
PE-462-83	P-83-142	365.25-365.60	1.77	11.82	31.97	54.44	1.15	12,668	1 1/2	
PE-463-83	P-83-143	365.60-365.95	1.72	11.99	31.40	54.89	0.88		1	
PE-464-83	P-83-144	365.95-366.30	1.73	16.47	30.39	51.41	1.38	11,966	1	
PE-465-83	P-83-145	366.30-366.66	1.63	23.20	29.63	45.84	2.01		1	
PE-466-83	P-83-146	366.66-366.92	1.72	25.28	28.53	44.47	2.05	10,475	1	
PE-467-83	P-83-147	366.92-367.18	1.68	19.24	29.24	49.84	1.76		1	
PE-468-83	P-83-148	367.18-367.55	1.78	9.13	32.34	56.75	1.14	13,043	1 1/2	
PE-469-83	P-83-149	367.55-367.88	1.89	33.21	25.28	39.62	0.72		1 1/2	
Hole No. DDNS-P-54 New Seam (Repeat)							Acq. No. 183			
PE-470-83	P-83-150	376.88-377.30	1.82	23.99	28.55	45.64	1.90	10,490	1/2	
PE-471-83	P-83-151	377.30-377.72	1.85	40.37	23.28	34.50	2.11		1	
PE-472-83	P-83-152	377.72-377.90	1.79	27.17	27.60	43.44	3.04	10,216	1	
PE-473-83	P-83-153	377.90-378.23	1.77	37.76	25.05	35.42	1.59		1	
PE-474-83	P-83-154	378.23-378.55	1.55	15.99	30.79	51.67	2.87		1	
PE-475-83	P-83-155	378.55-378.87	1.62	13.71	30.93	53.74	1.55	12,581	1 1/2	
PE-476-83	P-83-156	378.87-379.19	1.60	16.90	30.25	51.25	3.48		1	
PE-477-83	P-83-157	379.19-379.50	1.28	18.01	30.33	50.38	5.77	11,537	1	
PE-478-83	P-83-158	379.50-379.90	1.48	15.26	29.92	53.34	3.34	11,920	1	
PE-479-83	P-83-159	379.90-380.30	1.35	21.69	28.72	48.24	2.75		1	
PE-480-83	P-83-160	380.30-380.50	1.58	39.55	23.42	35.45	2.30	8,119	1/2	
PE-481-83	P-83-161	380.50-380.80	1.36	24.56	27.73	46.35	2.29		1	
PE-482-83	P-83-162	382.90-383.50	1.43	27.20	27.13	44.24	3.26	10,112	1	
Hole No. DDNS-P-54 ? Seam							Acq. No. 184			
PE-483-83	P-83-163	391.0- 391.18	1.81	52.44	21.09	24.66	0.98		1/2	
PE-484-83	P-83-164	391.18-391.33	1.22	32.64	30.95	35.19	2.97	9,050	1	

Table 3 - Cont'd

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
PE-485-83	P-83-165	391.33-391.43					~30.25		0	
PE-486-83	P-83-166	391.43-391.65	1.58	37.56	24.57	36.29	1.87		1	
PE-487-83	P-83-167	391.65-391.99	1.33	18.01	30.53	50.13	2.43	11,712	1 1/2	
PE-488-83	P-83-168	391.99-392.32	1.38	14.21	31.43	52.98	1.66	12,303	1	
PE-489-83	P-83-169	392.32-392.66	1.68	19.28	28.61	50.43	2.20		1	
PE-490-83	P-83-170	392.66-393.0	1.73	13.29	30.33	54.65	2.80	12,285	2	
PE-491-83	P-83-171	393.0- 393.30	1.55	17.74	29.16	51.55	4.03		1	
PE-492-83	P-83-172	393.30-393.65	1.66	17.97	28.46	51.91	2.81	11,830	1	
PE-493-83	P-83-173	393.65-393.8	1.71	34.70	24.40	39.19	3.94		1	
Hole No. DDNS-P-54 ? Seam							Acq. No. 185			
PE-494-83	P-83-174	409.0-409.55	1.36	21.20	28.47	48.97	1.08	11,439	1	
Hole No. DDNS-P-54 Norah Seam							Acq. No. 186			
PE-495-83	P-83-175	462.90-463.20	1.79	22.05	28.85	47.31	0.89	10,856	1	
PE-496-83	P-83-176	463.20-463.50	2.00	20.05	22.73	50.22	1.47		1	
PE-497-83	P-83-177	465.0- 465.30	1.65	12.23	31.62	54.50	1.34	12,772	2	
PE-498-83	P-83-178	465.30-465.60	1.70	18.21	29.48	50.61	1.11	11,934	1 1/2	
PE-499-83	P-83-179	465.60-466.0	1.70	36.03	24.57	37.70	2.39		1	
PE-500-83	P-83-180	466.0- 466.20	1.60	16.78	30.07	51.55	2.20		1 1/2	
PE-501-83	P-83-181	466.20-466.50	1.60	15.55	30.43	52.42	1.18	12,112	2	
PE-502-83	P-83-182	466.50-466.80	1.72	17.28	30.18	50.82	1.08		1	
PE-503-83	P-83-183	466.80-467.15	1.69	37.36	25.87	35.08	1.06	8,299	1/2	
PE-504-83	P-83-184	467.15-467.50	1.73	47.92	21.51	28.84	1.50		0	

Table 4 - Analyses of seam sections - Cape Breton County - Glace Bay District

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
Hole No. DDNS-GB-54 O'Dell Seam							Acq. No. 1256			
PE-1138-83	CB-83-1	80.34-80.68	2.13	13.53	32.35	52.00	8.89	12,787	7	
PE-1139-83	CB-83-2	80.68-80.70	1.59	51.76	21.43	25.21	4.98		0	
PE-1140-83	CB-83-3	80.70-80.82	1.39	29.01	29.08	40.52	15.60	10,144	2 1/2	
Hole No. DDNS-GB-55 McRury Seam							Acq. No. 1257			
PE-1298-83	CB-83-4	6.28-6.46	2.25	23.15	29.63	44.97	13.80	10,876	6	
Hole No. DDNS-GB-56 McRury Seam							Acq. No. 1258			
PE-1299-83	CB-83-5	20.16-20.24	2.08	10.61	32.42	54.89	8.63	13,118	7	
PE-1300-83	CB-83-6	20.24-20.29	1.84	8.66	34.55	54.95	8.11	13,384	8	
PE-1301-83	CB-83-7	20.29-20.42	2.07	14.35	32.75	50.83	11.90	12,525	7	
PE-1302-83	CB-83-8	20.42-20.50	2.63	2.42	37.08	57.87	2.42	14,509	8	
PE-1303-83	CB-83-9	20.80-20.93	2.67	7.47	34.97	54.89	6.33	13,578	8	
PE-1304-83	CB-83-10	20.93-21.08	2.14	10.75	34.11	53.00	6.12	13,046	7	
PE-1305-83	CB-83-11	21.08-21.17	1.63	20.93	27.80	49.64	10.60	11,417	3	
PE-1306-83	CB-83-12	21.17-21.23	1.66	31.39	27.39	39.56	18.70	9,541	6	
Hole No. DDNS-GB-56 O'Dell Seam							Acq. No. 1259			
PE-1307-83	CB-83-13	101.94-102.03	2.81	5.56	34.46	57.17	3.19	13,955	7 1/2	
PE-1308-83	CB-83-14	102.03-102.37	2.68	5.96	34.28	57.08	4.35	13,800	7 1/2	
PE-1309-83	CB-83-15	102.37-102.56	1.74	24.42	29.80	44.04	7.85	10,804	4	
Hole No. DDNS-GB-57 McRury Seam							Acq. No. 1260			
PE-1310-83	CB-83-16	28.75-28.95	1.93	13.93	33.35	50.79	7.08	12,576	6 1/2	
PE-1311-83	CB-83-17	28.95-29.05	1.81	20.47	32.07	45.65	14.10	11,456	7	

Table 4 (Cont'd)

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
Hole No. DDNS-GB-58 McRury Seam							Acq. No. 1261			
PE-1312-83	CB-83-18	37.10-37.25	1.92	14.05	32.98	51.05	11.80	12,516	7	
PE-1313-83	CB-83-19	37.25-37.61	2.81	6.04	36.58	54.57	4.76	13,918	7	
PE-1314-83	CB-83-20	37.61-37.78	3.24	2.63	37.82	56.31	2.37	14,373	8	
PE-1315-83	CB-83-21	37.78-37.86	3.00	6.17	35.60	55.23	5.29	13,716	8	
PE-1316-83	CB-83-22	37.86-38.01	2.07	13.77	34.76	49.40	6.52	12,704	7 1/2	
PE-1317-83	CB-83-23	38.01-38.18	1.73	20.81	30.80	46.66	12.20	11,449	6 1/2	

Table 5 - Analyses of seam sections - Cumberland County - Springhill Dirstriot

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
Hole No. DDNS-SH-71 Lower No. 3 Seam							Acq. No. 1854			
PE-1-83	SH71-1LT	75.00-75.18	1.91	32.78	28.41	36.90	10.40	9,158	1	1.755
PE-2-83	SH71-2LT	76.06-76.17	1.75	53.56	20.17	24.52	3.35		1 1/2	1.93
PE-3-83	SH71-3LT	76.17-76.32	2.19	18.95	32.66	46.20	5.91	11,522	6	1.515
PE-4-83	SH71-4LT	76.65-77.09	2.21	23.17	29.86	44.76	5.89	10,708	1 1/2	1.575
Hole No. DDNS-SH-73 No. 6 Seam							Acq. No. 1855			
PE-6-83	SH73-6SX	58.81-59.26	2.29	22.26	29.31	46.14	1.87	10,908	2 1/2	1.50
PE-7-83	SH73-7SX	59.26-59.43	2.82	10.76	32.22	54.20	1.61	12,770	4	1.385
PE-8-83	SH73-8SX	59.43-59.60	1.80	47.00	21.19	30.01	3.46		1	1.815
PE-9-83	SH73-9SX	59.60-59.78	2.93	12.02	33.27	51.78	2.33	12,695	6 1/2	1.39
PE-10-83	SH73-10SX	59.78-59.97	3.01	8.55	33.43	55.01	1.28	13,086	6 1/2	1.365
PE-11-83	SH73-11SX	59.97-60.26	2.86	16.16	30.64	50.34	2.91	11,847	5	1.45
PE-12-83	SH73-12SX	60.26-60.47	4.01	4.83	32.64	58.52	1.07	13,504	5	1.345
PE-13-83	SH73-13SX	60.54-60.71	3.66	6.43	31.62	58.29	1.25	13,211	3 1/2	1.365
Hole No. DDNS-SH-73 No. 7 Seam							Acq. No. 1856			
PE-15-83	SH73-1S	40.44-40.73	3.83	3.22	34.27	58.68	1.00	13,705	5	1.34
PE-16-83	SH73-2S	40.73-40.94	2.82	15.87	37.05	44.26	0.72	10,949	2 1/2	1.48
PE-17-83	SH73-3S	40.94-41.28	2.11	27.76	38.20	31.93	2.23	8,771	1 1/2	1.655
PE-18-83	SH73-4S	41.28-41.57	2.95	14.97	31.95	50.13	3.17	11,962	3 1/2	1.455
PE-19-83	SH73-5S	41.57-41.68	2.83	11.33	31.56	54.28	2.42	12,596	3	1.42
Hole No. DDNS-SH-75 No. 7 Seam							Acq. No. 1857			
PE-21-83	SH75-1S	21.59-21.82	3.97	8.26	32.95	54.82	2.56	13,007	4	1.385
PE-22-83	SH75-2S	21.82-22.05	4.32	5.89	32.60	57.19	1.09	13,318	3 1/2	1.36
PE-23-83	SH75-3S	22.05-22.27	4.45	4.11	32.67	58.77	1.02	13,554	4	1.345
PE-24-83	SH75-4S	22.27-22.45	4.45	5.90	31.29	58.36	0.97	13,308	2 1/2	1.37

Table 5 - Cont'd

Laboratory No.	DDMS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
PE-25-83	SH75-5S	22.45-22.63	3.98	8.39	29.96	57.67	1.73	12,913	2	1.395
PE-26-83	SH75-6S	22.63-22.81	3.86	8.49	31.73	55.92	2.01	13,222	2 1/2	1.38
PE-27-83	SH75-7S	22.81-22.88	3.69	3.83	34.60	57.88	1.17	13,704	5 1/2	1.33
Hole No. DDMS-SH-75 No. 6 Seam							Acq. No. 1858			
PE-29-83	SH75-1SX	40.86-41.11	2.82	11.95	32.15	53.08	1.82	12,527	3 1/2	1.41
PE-30-83	SH75-2SX	41.11-41.35	1.41	69.02	15.13	14.44	0.70		1/2	2.135
PE-31-83	SH75-3SX	41.35-41.52	3.13	9.54	31.96	55.37	2.29	12,941	5 1/2	1.39
PE-32-83	SH75-4SX	41.52-41.66	3.49	7.57	32.29	56.65	1.47	13,171	6	1.37
PE-33-83	SH75-5SX	41.76-41.81	2.24	33.04	24.16	40.56	2.29	9,107	1	1.64
PE-34-83	SH75-6SX	41.81-41.97	3.12	11.95	31.36	53.57	2.73	12,513	3	1.425
PE-35-83	SH75-7SX	41.97-42.27	3.34	7.38	33.40	55.88	1.43	13,130	4	1.36
PE-36-83	SH75-8SX	42.27-42.35	3.38	7.29	31.87	57.46	3.13	13,046	3	1.39
Hole No. DDMS-SH-78 Rodney Seam							Acq. No. 1859			
PE-284-83	SH78-1R	348.74-348.84	1.42	25.00	29.70	43.88	4.01	11,159	2 1/2	1.54
PE-285-83	SH78-2R	348.84-348.98	1.42	28.37	27.52	42.69	1.55	10,286	2 1/2	1.555
PE-286-83	SH78-3R	348.98-349.57	1.07	65.70	16.71	16.52	1.27		0	2.13
PE-287-83	SH78-4R	350.04-350.24	1.07	45.50	23.20	30.23	2.34		1	1.77
PE-288-83	SH78-5R	350.24-350.44	1.58	38.35	24.72	35.35	3.06	8,204	1	1.725
Hole No. DDMS-SH-79 No. 3 Seam							Acq. No. 1860			
PE-290-83	SH79-1T	51.99-52.16	1.17	46.31	21.85	30.67	1.63		1	1.775
PE-291-83	SH79-2T	52.70-53.00	0.82	74.80	12.55	11.83	0.84		0	2.265
PE-292-83	SH79-3T	53.00-53.54	1.31	32.08	24.97	41.64	2.67	9,444	1 1/2	1.63
PE-293-83	SH79-4T	53.54-53.66	1.38	24.13	32.58	41.91	2.03	10,745	6 1/2	1.525
PE-294-83	SH79-5T	53.82-54.11	0.76	80.31	11.45	7.48	0.41		0	2.43
PE-295-83	SH79-6T	55.56-55.76	1.07	41.35	26.29	31.29	2.45	8,204	1	1.72
PE-296-83	SH79-7T	56.08-56.67	0.91	60.34	16.51	22.24	3.06		1/2	2.02

Table 5 - Cont'd

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
Hole No. DDNS-SH-79 McCarthy Seam							Acq. No. 1861			
PE-298-83	SH79-1M	33.25-33.35	1.42	35.62	24.55	38.41	1.46	9,298	1 1/2	1.61
PE-299-83	SH79-2M	33.35-33.67	0.72	76.62	13.31	9.35	0.77		0	2.40
PE-300-83	SH79-3M	33.67-33.75	1.31	41.78	23.41	33.50	1.85	7,763	1	1.75
PE-301-83	SH79-4M	33.75-33.97	1.76	14.56	29.28	54.40	1.90	12,204	2 1/2	1.44
PE-302-83	SH79-5M	33.97-34.19	1.49	20.65	26.89	50.97	1.38	11,432	1 1/2	1.49
Hole No. DDNS-SH-80 No. 3 Seam							Acq. No. 1862			
PE-304-83	SH80-1	25.05-25.11	2.66	15.13	28.97	53.24	0.90	11,961	1 1/2	1.44
PE-305-83	SH80-2	25.34-25.60	2.90	9.93	30.60	56.57	1.36	12,846	2	1.395
PE-306-83	SH80-3	25.8 -26.01	3.09	9.04	31.60	56.27	1.78	12,900	2 1/2	1.395
PE-307-83	SH80-4	26.24-26.46	3.01	8.74	32.16	56.09	1.73	13,083	2	1.38
PE-308-83	SH80-5	26.77-27.17	2.85	12.80	31.15	53.20	1.69	12,361	2	1.415
PE-309-83	SH80-6	27.43-27.54	2.55	21.26	27.22	48.97	2.51	11,018	1	1.52
Hole No. DDNS-SH-81 No. 3 Seam							Acq. No. 1863			
PE-677-83	SH81-1T	22.90-23.28	3.19	8.58	32.61	55.62	1.54	12,905	2	1.38
PE-678-83	SH81-2T	23.28-23.58	3.26	11.70	30.48	54.56	1.44	12,399	1	1.415
PE-679-83	SH81-3T	23.58-24.19	3.17	10.90	31.12	54.81	1.56	12,556	1 1/2	1.41
PE-680-83	SH81-4T	24.19-24.43	3.42	8.06	30.77	57.75	2.06	12,925	1	1.40
PE-681-83	SH81-5T	24.43-24.92	3.62	6.18	31.47	58.73	1.07	13,145	1	1.365
PE-682-83	SH81-6T	24.92-25.25	3.85	3.76	32.38	60.01	0.88	13,478	1 1/2	1.345
PE-683-83	SH81-7T	25.25-25.46	3.85	4.65	32.45	59.05	0.87	13,387	1	1.355
PE-684-83	SH81-8T	25.46-25.67	3.03	10.08	30.33	56.56	1.48	12,751	1	1.41
PE-685-83	SH81-9T	25.67-25.86	2.95	10.78	31.62	54.65	1.62	12,613	1 1/2	1.40
PE-686-83	SH81-10T	25.86-26.18	2.75	13.82	28.73	54.70	1.57	12,125	1	1.455
PE-687-83	SH81-11T	26.18-26.59	3.01	10.25	30.03	56.71	2.79	12,670	1	1.425
PE-688-83	SH81-12T	26.59-26.86	3.42	7.35	32.59	56.64	2.69	13,048	2	1.38
PE-689-83	SH81-13T	26.86-27.22	2.75	25.61	24.40	47.24	2.38	10,027	1	1.60

Table 5 - Cont'd

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
Hole No. DDNS-SH-82 No. 3 Seam							Acq. No. 1864			
PE-691-83	SH82-1T	27.19-27.54	3.58	9.78	29.75	56.89	1.49	12,603	1	1.415
PE-692-83	SH82-2T	27.54-27.90	3.75	6.04	29.53	60.68	1.47	13,181	1	1.39
PE-693-83	SH82-3T	27.90-28.26	4.05	4.97	30.42	60.56	1.05	13,280	1	1.375
PE-694-83	SH82-4T	28.26-28.62	4.12	4.05	30.42	61.41	1.02	13,401	1	1.365
PE-695-83	SH82-5T	28.62-28.79	2.27	72.76	11.61	13.36	0.40		0	2.235
PE-696-83	SH82-6T	28.79-29.13	3.89	6.41	30.33	59.37	2.05	12,861	1 1/2	1.40
PE-697-83	SH82-7T	29.13-29.47	3.57	6.63	31.43	58.37	1.76	13,220	2	1.39
PE-698-83	SH82-8T	29.47-29.80	3.68	4.53	32.70	59.09	1.33	13,492	2	1.355
PE-699-83	SH82-9T	29.80-30.19	3.00	11.37	30.94	54.69	2.25	12,564	1	1.425
PE-700-83	SH82-10T	30.19-30.52	3.39	12.19	29.62	54.80	1.51	12,218	1	1.435
PE-701-83	SH82-11T	30.52-30.82	3.39	12.98	29.41	54.22	3.68	12,162	1	1.47
PE-702-83	SH82-12T	30.82-31.04	3.33	19.60	25.68	51.39	4.91	11,056	1	1.575
Hole No. DDNS-SH-83 No. 3 Seam							Acq. No. 1865			
PE-738-83	SH83-1T	9.38- 9.55	2.80	23.19	26.13	47.88	2.46	10,750	1 1/2	1.55
PE-739-83	SH83-2T	9.55- 9.74	1.50	66.19	15.67	16.64	0.68		0	2.12
PE-740-83	SH83-3T	9.74- 9.93	2.82	21.53	27.58	48.07	3.19	11,189	1	1.54
PE-741-83	SH83-4T	9.93-10.22	2.81	30.33	26.22	40.64	2.83	9,495	1	1.62
PE-742-83	SH83-5T	10.22-10.57	2.68	27.07	27.90	42.35	3.38	10,123	1	1.58
PE-743-83	SH83-6T	10.57-11.02	1.72	72.65	13.75	11.88	1.04		0	2.24
PE-744-83	SH83-7T	11.02-11.48	2.62	34.00	28.14	35.24	2.51	8,877	1	1.66
PE-745-83	SH83-8T	11.48-11.80	1.92	51.97	19.40	26.71	3.66		1	1.94
PE-746-83	SH83-9T	11.80-12.13	2.16	30.75	25.80	41.29	5.48	9,354	0	1.67
Hole No. DDNS-SH-85 No. 3 Seam							Acq. No. 1866			
PE-704-83	SH85-1T	11.08-11.32	2.63	20.69	35.18	41.50	2.57	10,723	2	1.53
PE-705-83	SH85-2T	11.32-11.73	1.39	91.30	6.45		0.28		0	2.65
PE-706-83	SH85-3T	11.73-11.89	2.37	31.42	22.33	43.88	1.04	9,464	1	1.64

Table 5 - Cont'd

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
PE-707-83	SH86-4T	11.89-12.05	1.69	76.67	11.73	9.91	0.60		0	2.345
PE-708-83	SH87-5T	12.05-12.48	2.76	18.46	28.26	50.52	2.99	11,473	1	1.505
PE-709-83	SH85-6T	12.48-12.70	2.42	23.83	27.75	46.00	3.00	10,670	1	1.55
PE-710-83	SH85-7T	12.70-13.09	2.55	25.78	31.08	40.59	2.33	10,196	1	1.57
PE-711-83	SH85-8T	13.09-13.45	2.05	57.53	18.17	22.25	2.03		0	1.985
PE-712-83	SH85-9T	13.45-13.70	2.56	24.69	27.28	45.47	4.04	10,550	1	1.57
PE-713-83	SH85-10T	13.70-14.14	2.21	46.96	21.07	29.76	2.00		1	1.83
PE-714-83	SH85-11T	14.14-14.50	2.47	31.11	26.05	40.37	6.35	9,531	1	1.68
Hole No. DDNS-SH-87 No. 3 Seam							Acq. No. 1867			
PE-716-83	SH87-1T	7.42- 7.62	2.86	9.56	31.31	56.27	2.74	12,934	3 1/2	
PE-717-83	SH87-2T	7.62- 7.90	2.11	29.05	27.02	41.82	2.78	9,908	1	
PE-718-83	SH87-3T	7.90- 8.21	2.72	21.50	28.74	47.04	2.60	10,987	1	
PE-719-83	SH87-4T	8.21- 8.35	2.39	35.15	24.77	37.69	1.55	8,848	1	
PE-720-83	SH87-5T	8.35- 8.59	2.76	21.67	28.02	47.55	3.18	10,960	1	
PE-721-83	SH87-6T	8.59- 8.78	2.08	32.05	33.54	32.33	1.91	8,488	1	
PE-722-83	SH87-7T	8.78- 8.94	1.86	71.82	14.09	12.23	1.13		0	
PE-723-83	SH87-8T	8.94- 9.28	2.60	24.01	29.17	44.22	4.85	10,711	1	
PE-724-83	SH87-9T	9.28- 9.80	2.20	42.25	22.64	32.91	1.36		1	
PE-725-83	SH87-10T	9.80-10.07	2.02	40.42	23.29	34.27	4.51	7,999	1	
PE-726-83	SH87-11T	10.07-10.29	2.05	32.34	26.77	38.84	6.47	9,454	1	
Hole No. DDNS-SH-89 No. 3 Seam							Acq. No. 1868			
PE-728-83	SH89-1T	20.53-20.76	2.99	18.15	29.29	49.57	2.84	11,335	1	1.50
PE-729-83	SH89-2T	20.92-21.17	4.00	5.60	32.31	58.09	1.18	13,268	1	1.38
PE-730-83	SH89-3T	21.17-21.45	3.97	4.36	32.20	59.47	0.97	13,458	1	1.365
PE-731-83	SH89-4T	21.45-21.60	2.12	91.04	7.28	-	0.86		0	2.73
PE-732-83	SH89-5T	21.68-22.04	3.68	7.34	32.18	56.80	0.97	13,030	1 1/2	1.39
PE-733-83	SH89-6T	22.04-22.40	3.54	8.37	31.45	56.64	1.77	12,937	1 1/2	1.405
PE-734-83	SH89-7T	22.40-22.75	3.56	8.78	31.96	55.70	1.27	12,902	2	1.405

Table 5 - Cont'd

Laboratory No.	DDNS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
PE-735-83	SH89-8T	22.75-23.11	3.49	9.91	31.58	55.02	2.28	12,584	2	1.41
PE-736-83	SH89-9T	23.11-23.32	3.13	13.40	28.09	55.38	2.04	12,187	1 1/2	1.475
Hole No. DDNS-SH-90 No. 3 Seam							Acq. No. 1869			
PE-1105-83	SH90-1T	17.19-18.96	2.22	12.28	30.46	55.04	0.95	12,518	1 1/2	1.38
PE-1106-83	SH90-2T	18.96-19.24	2.41	9.24	30.03	58.32	1.74	12,971	1 1/2	1.405
PE-1107-83	SH90-3T	19.24-19.53	2.37	7.03	32.18	58.42	1.11	13,378	3 1/2	1.37
PE-1108-83	SH90-4T	19.53-19.81	2.22	9.49	31.69	56.60	2.15	13,025	3 1/2	1.395
PE-1109-83	SH90-5T	19.81-20.16	2.24	8.74	32.32	56.70	2.24	13,155	3 1/2	1.39
PE-1110-83	SH90-6T	20.16-20.44	2.04	13.88	30.34	53.74	1.87	12,364	2 1/2	1.43
PE-1111-83	SH90-7T	20.44-20.72	2.11	15.67	29.30	52.92	2.11	11,981	1	1.46
PE-1112-83	SH90-8T	20.72-20.86	2.12	13.94	29.91	54.03	2.88	12,335	2	1.445
PE-1113-83	SH90-9T	20.86-21.12	2.20	11.10	30.79	55.91	2.97	12,689	2	1.43
PE-1114-83	SH90-10T	21.12-21.30	2.17	23.02	24.35	50.46	2.84	10,775	1	1.565
Hole No. DDNS-SH-91 No. 3 Seam							Acq. No. 1870			
PE-1116-83	SH91-1T	7.54-7.75	2.10	7.47	31.17	59.26	1.54	13,344	2	1.38
PE-1117-83	SH91-2T	7.75-7.96	2.30	6.21	31.68	59.81	1.06	13,546	2	1.365
PE-1118-83	SH91-3T	7.96-8.16	2.20	8.65	32.87	56.28	1.49	13,178	3 1/2	1.38
PE-1119-83	SH91-4T	8.16-8.36	2.02	10.70	30.39	56.89	1.21	12,792	2	1.40
PE-1120-83	SH91-5T	8.36-8.63	1.71	16.34	28.64	53.31	2.71	11,939	1	1.475
PE-1121-83	SH91-6T	8.63-8.90	1.95	11.38	29.88	56.79	4.23	12,712	1 1/2	1.445
PE-1122-83	SH91-7T	8.90-9.00	1.80	17.53	26.48	54.19	1.87	11,748	1	1.49
PE-1123-83	SH91-8T	9.74-9.91	1.90	15.02	28.54	54.54	3.80	12,132	1	1.47
Hole No. DDNS-SH-92 No. 3 Seam							Acq. No. 1871			
PE-1125-83	SH92-1T	6.30- 6.47	2.56	9.56	31.05	56.83	0.99	12,823	1 1/2	1.39
PE-1126-83	SH92-2T	6.47- 6.60	2.38	10.51	33.00	54.11	2.34	12,795	3 1/2	1.395
PE-1127-83	SH92-3T	6.60- 6.82	2.26	13.21	30.21	54.32	3.57	12,314	1	1.45

Table 5 - Cont'd

Laboratory No.	DDMS No.	Depth interval m	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI	Sp.Gr.
PE-1128-83	SH92-4T	6.82- 6.96	2.63	5.22	32.64	59.51	1.02	13,486	1 1/2	1.35
PE-1129-83	SH92-5T	6.96- 7.16	2.35	8.83	30.27	58.55	1.04	13,069	1	1.39
PE-1130-83	SH92-6T	7.16- 7.27	2.83	6.66	32.10	58.41	3.34	13,238	2	1.395
PE-1131-83	SH92-7T	7.27- 8.14	2.95	4.49	31.94	60.62	1.29	13,629	1 1/2	1.36
PE-1132-83	SH92-8T	8.14- 8.30	1.39	88.61	8.02	1.98	0.12		0	2.61
PE-1133-83	SH92-9T	8.35- 8.54	2.51	8.72	32.77	56.00	2.01	13,031	3	1.39
PE-1134-83	SH92-10T	8.54- 8.69	1.28	64.08	17.09	17.55	2.50		0	2.12
PE-1135-83	SH92-11T	8.69- 9.84	2.45	9.51	31.39	56.65	1.83	12,804	1	1.405
PE-1136-83	SH92-12T	9.84-10.67	2.67	9.81	29.64	57.88	1.62	12,801	1	1.415
Hole No. DDMS-SH-92 No. 3 Seam							Acq. No. 1871			
PE-297-82 (PE-283-83)	SH64-12R	252.34-252.72	1.77	12.09	29.48	56.66	2.04	12,921	4	1.415

Table 6 - Analyses of split tube samples - Cumberland County - Springhill District

Laboratory No.	Sample No.	Depth interval m	Air Dried moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb
Hole No. SD-83-1, Springhill Dump									
PE-862-83		0.00-10.05	2.81	3.59	59.21	16.03	21.17	1.81	3,756
Hole No. SD-83-2, Springhill Dump									
PE-863-83	1	0.00-0.67	8.05	4.42	51.62	17.02	26.94	1.02	
PE-864-83	2	0.67-1.34	4.70	3.14	48.34	16.25	32.27	0.96	5,638
PE-865-83	3	1.34-2.01	3.57	2.12	70.47	11.71	15.70	0.73	
PE-866-83	4	2.01-2.68	3.74	1.84	78.89	11.15	8.12	0.64	
PE-867-83	5	2.68-3.35	5.41	3.95	75.54	16.16	4.35	0.77	
PE-868-83	6	3.35-4.02	6.86	4.17	73.24	16.97	5.62	0.35	1,954
PE-869-83	7	4.02-4.69	5.08	2.44	80.27	12.31	4.98	0.25	
PE-870-83	8	4.69-5.36	12.02	3.23	69.46	15.89	11.42	0.26	
PE-871-83	9	5.36-6.03	13.18	2.98	64.82	14.96	17.24	0.42	
PE-872-83	10	6.03-6.70	8.94	3.17	74.55	11.79	10.49	0.47	
Hole No. SD-83-3, Springhill Dump									
PE-873-83	1	0.00- 0.67	9.52	2.19	48.57	14.81	34.43	1.27	
PE-874-83	2	0.67- 1.34	7.49	1.93	36.52	18.44	43.11	4.81	8,328
PE-875-83	3	1.34- 2.01	13.45	2.71	52.18	14.85	30.26	0.88	
PE-876-83	4	2.01- 2.68	8.44	2.33	62.84	12.57	22.26	0.74	
PE-877-83	5	2.68- 3.35	9.47	2.12	60.03	13.95	23.90	1.14	
PE-878-83	6	3.35- 4.02	12.81	2.52	54.74	14.28	28.46	1.20	
PE-879-83	7	4.02- 4.69	10.37	2.68	51.93	16.09	29.30	1.31	5,449
PE-880-83	8	4.69- 5.36	12.42	2.34	57.95	13.62	26.09	1.18	
PE-881-83	9	5.36- 6.03	8.07	2.41	56.85	15.95	24.79	1.65	
PE-882-83	10	6.03- 6.70	12.34	2.25	59.95	13.55	24.25	1.03	
PE-883-83	11	6.70- 7.37	7.38	1.85	63.44	18.84	15.87	0.43	
PE-884-83	12	7.37- 8.04	6.85	2.43	56.50	15.82	25.25	1.77	4,903
PE-885-83	13	8.04- 8.71	7.26	2.09	74.11	12.16	11.64	0.79	

Table 6 - Cont'd

Laboratory No.	Sample No.	Depth interval m	Air dried moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb
PE-886-83	14	8.71- 9.38	8.82	3.37	60.56	16.83	19.24	1.44	
PE-887-83	15	9.38-10.05	8.23	3.30	53.69	17.37	25.64	1.61	
PE-888-83	16	10.05-10.72	8.16	2.13	60.80	13.94	23.13	1.25	4,575
PE-889-83	17	10.72-11.39	7.30	2.19	58.60	14.68	24.53	1.50	
PE-890-83	18	11.39-12.06	7.20	3.93	50.81	18.45	26.81	1.67	
PE-891-83	19	12.06-12.73	6.38	2.45	71.45	13.47	12.63	1.34	
Hole No. SD-83-4, Springhill Dump									
PE-892-83	1	0.00-0.67	3.23	2.22	50.49	18.31	28.98	1.58	
PE-893-83	2	0.67-1.34	4.15	2.43	48.15	20.65	28.77	0.92	6,026
PE-894-83	3	1.34-2.01	2.90	1.83	76.06	10.72	11.39	0.41	
PE-895-83	4	2.01-2.68	4.22	4.58	52.73	21.15	21.54	0.54	
PE-896-83	5	2.68-3.35	5.11	3.48	62.34	16.17	18.01	0.61	
PE-897-83	6	3.35-4.02	4.99	2.36	63.25	15.50	18.89	1.29	
PE-898-83	7	4.02-4.69	5.60	2.62	60.18	15.51	21.69	1.23	3,846
PE-899-83	8	4.69-5.36	6.96	2.73	76.71	14.16	6.40	0.56	1,145
PE-900-83	9	5.36-6.03	7.46	3.52	71.93	16.38	8.17	0.68	
PE-901-83	10	6.03-6.70	4.97	1.92	80.07	12.79	5.22	0.44	955
Hole No. SD-83-5, Springhill Dump									
PE-902-83	1	0.00-0.67	9.24	4.18	49.22	18.98	27.62	0.96	
PE-903-83	2	0.67-1.34	5.95	3.15	40.60	19.49	36.76	0.89	7,626
PE-904-83	3	1.34-2.01	5.74	2.45	63.81	13.95	19.79	1.11	
PE-905-83	4	2.01-2.68	5.75	2.86	53.59	17.67	25.88	1.41	
PE-906-83	5	2.68-3.35	5.92	2.28	57.64	24.47	15.61	1.40	
PE-907-83	6	3.35-4.02	7.34	3.86	35.99	22.64	37.51	1.86	8,015
PE-908-83	7	4.02-4.67	6.38	3.24	47.79	20.81	28.16	1.48	
PE-909-83	8	4.67-5.34	5.77	2.78	56.12	17.13	23.97	2.23	
PE-910-83	9	5.34-6.01	7.12	3.58	53.72	19.25	23.45	1.52	
PE-911-83	10	6.01-6.68	6.60	2.79	74.96	13.40	8.85	0.78	

Table 6 - Cont'd

Laboratory No.	Sample No.	Depth interval m	Air dried moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb
Hole No. SD-83-6, Springhill Dump									
PE-912-83	1	0.00-0.67	5.32	1.55	69.32	11.65	17.48	0.80	3,151
PE-913-83	2	0.67-1.34	9.18	2.33	45.29	15.49	36.89	1.33	6,700
PE-914-83	3	1.34-2.01	10.22	2.14	50.55	17.02	30.29	1.45	
PE-915-83	4	2.01-2.68	6.59	2.45	53.52	18.72	25.31	1.00	
PE-916-83	5	2.68-3.35	6.31	2.01	62.42	19.84	15.73	0.41	3,607
PE-917-83	6	3.35-4.02	6.52	2.19	61.69	15.13	20.99	1.06	
PE-918-83	7	4.02-4.69	7.11	2.64	57.11	17.42	22.83	1.36	
PE-919-83	8	4.69-5.36	8.01	3.10	56.30	16.81	23.79	1.48	
PE-920-83	9	5.36-6.03	6.49	3.96	56.67	16.95	22.42	1.84	
PE-921-83	10	6.03-6.70	6.34	2.55	61.15	14.39	21.91	1.05	
PE-922-83	11	6.70-7.37	5.98	2.76	80.06	13.48	3.70	0.17	
Hole No. SD-83-7, Springhill Dump									
PE-923-83	1	0.00-0.67	24.66	2.92	32.67	22.81	41.60	0.70	8,249
PE-924-83	2	0.67-1.34	6.46	1.97	61.91	13.98	22.14	0.70	
PE-925-83	3	1.34-2.01	4.28	1.54	73.04	12.30	13.12	0.53	
PE-926-83	4	2.01-2.68	5.55	2.23	75.04	12.02	10.71	0.54	
PE-927-83	5	2.68-3.35	4.45	2.64	72.84	12.87	11.65	0.54	
PE-928-83	6	3.35-4.02	5.16	1.35	76.37	11.32	10.96	0.56	
PE-929-83	7	4.02-4.69	6.95	2.23	86.47	9.51	1.79	0.11	69
PE-930-83	8	4.69-5.36	6.48	2.02	90.27	8.00		1.16	
PE-931-83	9	5.36-6.03	7.62	2.63	92.13	5.37		1.34	0
PE-932-83	10	6.03-6.70	7.83	2.08	84.04	11.30	2.58	0.17	
Hole No. SD-83-8, Springhill Dump									
PE-933-83	1	0.00-0.67	6.34	2.05	59.16	16.90	21.89	0.87	
PE-934-83	2	0.67-1.34	6.62	2.87	52.38	16.87	27.88	1.36	
PE-935-83	3	1.34-2.01	5.89	4.08	43.64	17.99	34.29	1.93	6,678

Laboratory No.	Sample No.	Depth interval m	Air dried moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb
PE-936-83	4	2.01-2.68	6.57	3.60	58.72	14.23	23.45	1.63	
PE-937-83	5	2.68-3.35	6.09	3.06	65.76	16.61	14.57	0.60	2,984
PE-938-83	6	3.35-4.02	7.02	3.30	64.70	15.46	16.54	0.89	
PE-939-83	7	4.02-4.69	6.08	2.73	71.26	13.31	12.70	0.81	
PE-940-83	8	4.69-5.36	9.56	4.01	66.18	15.91	13.90	1.00	
PE-941-83	9	5.36-6.03	6.65	3.15	62.81	17.23	16.81	0.69	
PE-942-83	10	6.03-6.70	8.63	3.19	69.45	11.04	16.32	0.93	
Hole No. SD-83-9, Springhill Dump									
PE-943-83	1	0.00-0.67	7.41	1.66	69.96	11.36	17.02	0.80	
PE-944-83	2	0.67-1.34	5.95	1.95	72.20	11.56	14.29	0.79	
PE-945-83	3	1.34-2.01	2.29	0.97	86.93	7.67	4.43	0.09	571
PE-946-83	4	2.01-2.68	6.57	2.60	67.94	13.05	16.41	1.05	
PE-947-83	5	2.68-3.35	5.93	2.21	82.38	10.21	5.20	0.30	
PE-948-83	6	3.35-4.02	9.99	2.32	81.09	8.83	7.76	0.26	
PE-949-83	7	4.02-4.69	12.27	1.14	91.49	5.74	1.63	0.09	29
PE-950-83	8	4.69-5.36	5.88	1.41	90.27	6.79	1.53	0.04	
Hole No. SD-83-10, Springhill Dump									
PE-951-83	1	0.00-0.67	10.60	1.83	55.66	16.30	25.71	0.91	5,100
PE-952-83	2	0.67-1.34	7.10	1.74	55.79	17.21	25.26	0.82	
PE-953-83	3	1.34-2.01	7.21	1.78	51.90	18.21	28.11	1.32	
PE-954-83	4	2.01-2.68	6.10	2.30	62.30	15.80	19.60	1.01	
PE-955-83	5	2.68-3.35	6.17	2.09	67.39	15.97	14.55	0.69	2,982
PE-956-83	6	3.35-4.02	5.91	2.63	55.72	16.88	24.77	0.95	
PE-957-83	7	4.02-4.69	6.67	2.27	66.58	18.06	13.09	0.59	
PE-958-83	8	4.69-5.36	7.02	2.76	65.05	17.47	14.72	0.80	
PE-959-83	9	5.36-6.03	6.86	3.14	55.06	18.04	23.76	1.38	
PE-960-83	10	6.03-6.70	5.90	2.24	69.61	14.63	13.52	0.83	
PE-961-83	11	6.70-7.37	6.84	2.98	61.58	17.10	18.34	1.20	
PE-962-83	12	7.37-8.04	5.14	2.13	63.94	16.78	17.15	0.85	
PE-963-83	13	8.04-8.71	8.04	2.64	70.89	12.36	14.11	0.54	2,318

Table 7 - Analyses of composite samples

Laboratory No.		Sieve analysis wt%	Float-Sink analysis wt%	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI
Springhill Dump, Split Tube Composite, Hole No. SD-83-1										
PE-862-83										
Screen analysis										
PE-1015-83	-3/4"+28 mesh	71.14			(64.54)					
PE-1016-83	-28 mesh	28.86		5.35	55.29	21.19	18.17	2.85	3,855	
Float-sink analysis, -3/4"+28 mesh			2.16	1.82	7.52	24.08	66.58	1.14	13,454	
PE-1017-83	F-1.30		4.99	2.23	4.36	28.45	64.96	1.21	13,879	
PE-1018-83	S-1.30		4.60	3.43	6.41	23.69	66.47	1.52	12,803	
PE-1019-83	S-1.35		7.75	4.78	8.95	22.27	64.00	1.64	11,634	
PE-1020-83	S-1.40		3.08	4.58	21.04	21.19	53.19	2.15	9,906	
PE-1021-83	S-1.50		3.32	4.51	33.69	20.46	41.34	2.55	7,738	
PE-1022-83	S-1.60		74.10	1.84	82.87	11.17	4.12	0.69	848	
PE-1023-83	S-1.70									
Springhill Dump, Split Tube Composite, Hole No. SD-83-2										
PE-863-83 to PE-872-83										
Screen analysis										
PE-1024-83	-3/4"+28 mesh	72.84			(75.47)					
PE-1025-83	-28 mesh	27.16		5.25	60.25	19.88	14.62	1.37	3,278	
Float-sink analysis, -3/4"+28 mesh										
PE-1026-83	F-1.30		1.53	5.61	10.10	13.14	71.15	1.26	11,350	
PE-1027-83	S-1.30		3.26	2.47	4.21	22.63	70.69	0.92	13,568	
PE-1028-83	S-1.35		3.48	3.57	5.88	22.08	68.47	1.09	12,817	
PE-1029-83	S-1.40		4.38	5.10	8.21	21.73	64.96	1.18	11,523	
PE-1030-83	S-1.50		1.87	5.76	18.65	21.71	53.88	1.65	9,542	
PE-1031-83	S-1.60		1.14	4.39	31.76	18.55	45.30	2.16	7,719	
PE-1032-83	S-1.70		84.34	1.85	87.62	9.55	0.98	0.20	58	

Table 7 (Cont'd)

Laboratory No.		Sieve analysis wt%	Float-Sink analysis wt%	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI
Springhill Dump, Split Tube Composite, Hole No. SD-83-3										
PE-873-83 to PE-891-83										
Screen analysis										
PE-1033-83	-3/4"+28 mesh	72.90			(66.14)					
PE-1034-83	-28 mesh	27.10		5.67	45.33	20.74	28.26	1.83	5,622	
Float-sink analysis, -3/4"+28 mesh										
PE-1035-83	F-1.30		6.89	1.57	14.60	13.35	70.48	0.88	12,253	
PE-1036-83	S-1.30		5.48	2.35	5.82	27.95	63.88	1.24	13,606	
PE-1037-83	S-1.35		4.67	3.10	9.81	27.35	59.74	1.83	12,524	
PE-1038-83	S-1.40		5.59	3.42	15.30	25.38	55.90	2.25	11,269	
PE-1039-83	S-1.50		2.89	2.46	28.58	20.37	48.59	3.05	9,664	
PE-1040-83	S-1.60		2.39	2.11	39.92	17.40	40.57	3.36	7,668	
PE-1041-83	S-1.70		72.09	1.24	85.62	9.61	3.53	0.60	702	
Springhill Dump, Split Tube Composite, Hole No. SD-83-4										
PE-892-83 to PE-901-83										
Screen analysis										
PE-1042-83	-3/4"+28 mesh	69.47			(69.95)					
PE-1043-83	-28 mesh	30.53		5.04	57.21	19.03	18.72	1.16	3,801	
Float-sink analysis, -3/4"+28 mesh										
PE-1044-83	F-1.30		0.60	1.47	8.59	21.00	68.94	0.94	13,524	
PE-1045-83	S-1.30		6.72	2.52	4.06	29.48	63.94	0.93	13,776	
PE-1046-83	S-1.35		3.72	3.34	6.35	27.64	62.67	1.17	12,713	
PE-1047-83	S-1.40		4.75	5.08	9.27	28.59	57.06	1.29	11,153	
PE-1048-83	S-1.50		2.95	6.69	14.30	28.36	50.65	1.57	9,548	
PE-1049-83	S-1.60		1.57	2.66	35.49	20.15	41.70	3.10	8,224	
PE-1050-83	S-1.70		79.69	1.74	85.29	10.70	2.27	0.34	263	

Table 7 (Cont'd)

Laboratory No.		Sieve analysis wt%	Float-Sink analysis wt%	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI
Springhill Dump, Split Tube Composite, Hole No. SD-83-5										
PE-902-83 to PE-911-83										
Screen analysis										
PE-1051-83	-3/4"+28 mesh	72.93			(58.71)					
PE-1052-83	-28 mesh	27.07		6.24	45.53	22.60	25.57	1.55	5,776	
Float-sink analysis, -3/4"+28 mesh										
PE-1053-83	F-1.30		7.13	1.73	3.57	31.89	62.81	0.99	14,382	
PE-1054-83	S-1.30		11.91	2.26	4.75	30.20	62.79	1.27	13,920	
PE-1055-83	S-1.35		5.63	3.95	6.76	28.48	60.81	1.39	12,532	
PE-1056-83	S-1.40		4.96	4.09	12.82	27.08	56.01	1.78	11,400	
PE-1057-83	S-1.50		2.09	3.03	25.97	24.13	46.87	2.50	9,837	
PE-1058-83	S-1.60		1.95	2.81	36.51	22.09	38.59	2.65	8,179	
PE-1059-83	S-1.70		66.33	1.60	83.85	11.26	3.29	1.06	861	
Springhill Dump, Split Tube Composite, Hole No. SD-83-6										
PE-912-83 to PE-922-83										
Screen analysis										
PE-1060-83	-3/4"+28 mesh	72.09			(65.18)					
PE-1061-83	-28 mesh	27.91		5.35	50.14	20.73	23.78	2.19	4,887	
Float-sink analysis, -3/4"+28 mesh										
PE-1062-83	F-1.30		4.57	1.50	13.89	13.43	71.18	0.93	12,460	
PE-1063-83	S-1.30		6.16	2.56	4.56	26.94	65.94	0.92	13,748	
PE-1064-83	S-1.35		4.31	3.97	7.86	24.89	63.28	1.00	12,343	
PE-1065-83	S-1.40		7.14	4.89	9.32	22.53	63.26	1.12	11,524	
PE-1066-83	S-1.50		2.35	3.36	23.11	18.98	54.55	1.64	9,905	
PE-1067-83	S-1.60		1.85	2.39	36.83	17.48	43.30	2.31	7,994	
PE-1068-83	S-1.70		73.62	1.44	84.27	10.84	3.45	1.91	723	

Table 7 (Cont'd)

Laboratory No.		Sieve analysis wt%	Float-Sink analysis wt%	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI
Springhill Dump, Split Tube Composite, Hole No. SD-83-7										
PE-923-83 to PE-932-83										
Screen analysis										
PE-1069-83	-3/4"+28mesh	74.87			(80.65)					
PE-1070-83	-28mesh	25.13		4.04	70.13	15.16	10.67	1.24	2,601	
Float-sink analysis, -3/4"+28mesh										
PE-1071-83	F-1.30		2.79	2.25	10.92	19.58	67.25	0.82	12,036	
PE-1072-83	S-1.30		4.55	2.21	4.41	27.56	65.82	0.99	13,845	
PE-1073-83	S-1.35		1.94	2.42	8.70	25.13	63.75	1.32	12,884	
PE-1074-83	S-1.40		1.96	2.09	19.43	20.21	58.27	1.50	11,125	
PE-1075-83	S-1.50		1.11	1.96	28.18	17.65	52.21	1.76	9,720	
PE-1076-83	S-1.60		0.75	1.58	43.60	14.96	39.86	1.72	7,483	
PE-1077-83	S-1.70		86.90	1.44	90.86	8.05		0.06	70	
Springhill Dump, Split Tube Composite, Hole No. SD-83-8										
PE-933-83-to PE-942-83										
Screen analysis										
PE-1078-83	-3/4"+28mesh	73.09			(62.58)					
PE-1079-83	-28mesh	26.91		5.14	54.65	20.58	19.63	2.23	4,461	
Float-sink analysis, -3/4"+28mesh										
PE-1080-83	F-1.30		1.71	2.45	6.39	19.91	71.25	1.01	13,532	
PE-1081-83	S-1.30		2.74	2.45	4.67	25.53	67.35	1.06	13,792	
PE-1082-83	S-1.35		2.45	2.80	6.17	17.03	74.00	1.10	13,390	
PE-1083-83	S-1.40		10.81	3.64	7.01	11.82	77.53	1.24	12,948	
PE-1084-83	S-1.50		8.43	5.28	8.64	13.51	72.57	1.73	11,804	
PE-1085-83	S-1.60		2.32	5.09	24.28	15.69	54.94	1.90	9,266	
PE-1086-83	S-1.70		71.54	2.24	84.15	12.62	0.99	0.07	55	

Table 7 (Cont'd)

Laboratory No.		Sieve analysis wt%	Float-Sink analysis wt%	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating value BTU/lb	FSI
Springhill Dump, Split Tube Composite, Hole No. SD-83-9										
PE-943-83 to PE-950-83										
Screen analysis										
PE-1087-83	-3/4"+28 mesh	76.43			(85.61)					
PE-1088-83	-28 mesh	23.57		3.14	72.37	12.81	11.68	0.77	2,308	
Float-sink analysis, -3/4"+28 mesh										
PE-1089-83	F-1.30		1.53	2.86	10.25	14.65	72.24	1.23	12,668	
PE-1090-83	S-1.30		2.76	2.36	5.12	27.74	64.78	1.16	13,793	
PE-1091-83	S-1.35		1.44	3.66	8.77	25.29	62.28	1.17	12,408	
PE-1092-83	S-1.40		1.29	3.62	14.47	24.24	57.67	1.85	11,447	
PE-1093-83	S-1.50		0.59	2.78	24.57	18.93	53.72	2.79	10,137	
PE-1094-83	S-1.60		0.49	2.27	42.47	15.40	39.86	2.27	7,510	
PE-1095-83	S-1.70		91.90	1.28	92.11	7.29		0.18	31	
Springhill Dump, Split Tube Composite, Hole No. SD-83-10										
PE-951-83 to PE-963-83										
Screen analysis										
PE-1096-83	-3/4"+28 mesh	74.25			(68.52)					
PE-1097-83	-28 mesh	25.75		4.71	53.47	20.42	21.40	1.22	4,732	
Float-sink analysis, -3/4"+28 mesh										
PE-1098-83	F-1.30		1.83	1.76	11.93	18.14	68.17	0.95	12,649	
PE-1099-83	S-1.30		5.93	2.84	4.33	29.14	63.69	0.96	13,763	
PE-1100-83	S-1.35		3.55	3.84	7.28	28.00	60.88	1.23	12,712	
PE-1101-83	S-1.40		4.02	4.31	14.29	27.14	54.26	1.85	11,337	
PE-1102-83	S-1.50		2.13	2.78	26.62	23.44	47.16	2.35	9,968	
PE-1103-83	S-1.60		2.19	2.08	37.99	20.70	39.23	2.37	8,448	
PE-1104-83	S-1.70		80.35	1.58	81.91	12.61	3.90	0.70	1,183	

Table 8 - Number of samples and number of analyses

Site No.	Acq. No.	No. of samples	Prox.	ADM	Sul	HV	T.Hg	C + H + N + D	FSI	GR	Ash	FPA	SF	SP.Gr.	F-S	S.A.
DDNS-P-54	175	31	31		31	16			31							
DDNS-P-54	176	26	26		26	12			26							
DDNS-P-54	177	3	3		3	1			3							
DDNS-P-54	178	15	15		15	7			15							
DDNS-P-54	179	16	16		16	5			16							
DDNS-P-54	180	7	7		7	3			7							
DDNS-P-54	181	38	38		38	19			38							
DDNS-P-54	182	13	11		13	6			11							
DDNS-P-54	183	13	13		13	7			13							
DDNS-P-54	184	11	10		11	5			11							
DDNS-P-54	185	1	1		1	1			1							
DDNS-P-54	186	10	10		10	5			10							
DDNS-SH-71	1854	4	4		4	3			4					4		
DDNS-SH-73	1855	8	8		8	7			8					8		
DDNS-SH-73	1856	5	5		5	5			5					5		
DDNS-SH-74	1857	7	7		7	7			7					7		
DDNS-SH-75	1858	8	8		8	7			8					8		
DDNS-SH-78	1859	5	5		5	3			5					5		
DDNS-SH-79	1860	7	7		7	3			7					7		
DDNS-SH-79	1861	5	5		5	4			5					5		
DDNS-SH-80	1862	6	6		6	6			6					6		
DDNS-SH-81	1863	13	13		13	13			13					13		
DDNS-SH-82	1864	12	12		12	11			12					12		
DDNS-SH-83	1865	9	9		9	6			9					9		
DDNS-SH-85	1866	11	11		11	7			11					11		
DDNS-SH-87	1867	11	11		11	9			11					11		
DDNS-SH-89	1868	9	9		9	8			9					9		
DDNS-SH-90	1869	10	10		10	10			10					10		
DDNS-SH-91	1870	8	8		8	8			8					8		
DDNS-SH-92	1871	12	12		12	10			12					12		
DDNS-SH-64	1837	1	1		1	1			1					1		

Table 8 (Cont'd)

Site No.	Acq. No.	No. of samples	Prox.	ADM	Sul	HV	T.Hg	C + H + N + D	FSI	GR	Ash	FPA	SP	SP.Cr.	F-S	S.A.
DDNS-GB-54	1256	3	3		3	2			3							
DDNS-GB-55	1257	1	1		1	1			1							
DDNS-GB-56	1258	8	8		8	8			8							
DDNS-GB-56	1259	3	3		3	3			3							
DDNS-GB-57	1260	2	2		2	2			2							
DDNS-GB-58	1261	6	6		6	6			6							
Springhill Dump	SD-83-1	1	1		1	1			1							
Springhill Dump	SD-83-2	10	10		10	10			2							
Springhill Dump	SD-83-3	19	19		19	19			4							
Springhill Dump	SD-83-4	10	10		10	10			4							
Springhill Dump	SD-83-5	10	10		10	10			2							
Springhill Dump	SD-83-6	11	11		11	11			3							
Springhill Dump	SD-83-7	10	10		10	10			3							
Springhill Dump	SD-83-8	10	10		10	10			2							
Springhill Dump	SD-83-9	8	8		8	8			2							
Springhill Dump	SD-83-10	13	13		13	13			3							
Composites																
Springhill Dump	SD-83-1	9	8		8	8									1	1
Springhill Dump	SD-83-2	9	8		8	8									1	1
Springhill Dump	SD-83-3	9	8		8	8									1	1
Springhill Dump	SD-83-4	9	8		8	8									1	1
Springhill Dump	SD-83-5	9	8		8	8									1	1
Springhill Dump	SD-83-6	9	8		8	8									1	1
Springhill Dump	SD-83-7	9	8		8	8									1	1
Springhill Dump	SD-83-8	9	8		8	8									1	1
Springhill Dump	SD-83-9	9	8		8	8									1	1
Springhill Dump	SD-83-10	9	8		8	8									1	1
Totals (Data Items)		550	537X4	102	540	343			356					151	10x7	10x2
			2148	102	540	343			356					151	70	20